

Severe Track IC 2

References

- Bluestein, H. B., and M. L. Weisman (2000): The Interaction of Numerically Simulated Supercells Initiated along Lines. *Monthly Weather Review*: Vol. 128, No. 9, pp. 3128–3149.
- COMET, 1996: Anticipating convective storm structure and evolution. CD-ROM.
- COMET, 1999: Mesoscale Convective Systems: Squall Lines and Bow Echoes. Online training module, <http://www.meted.ucar.edu/convectn/mcs/index.htm>.
- COMET, 2001: Understanding NWP Models and Their Processes, A Distance Learning Course, available at <http://www.meted.ucar.edu/nwp/course/index.htm>
- Corfidi, S.F., 2003: Cold Pools and MCS Propagation: Forecasting the Motion of Downwind-Developing MCSs. *Wea. Forecasting*. Vol. 18, No. 6, 997-1017.
- Crook, N. A., 1996: Sensitivity of moist convection forced by boundary layer processes to low- level thermodynamic fields. *Mon. Wea. Rev.*, 124, 1767-1785.
- Davies, J., 2004: Tornadoes in a deceptively small CAPE setting: The “surprise” 4/20/04 outbreak in Illinois and Indiana. Web article at <http://members.cox.net/jondavies3/042004ilin/042004ilin.htm>.
- Diagnosing the Potential for Surface Boundaries to Initiate Convection, A VISIT training session produced by WDTB (Jim LaDue, primary author), 2001. Available at <http://www.nssl.noaa.gov/istpds/icu92/icu922web/ic922.html>
- Evans, J.S. and C. A. Doswell III, 2002: Investigating Derecho and Supercell Proximity Soundings. Preprints, 21st Conf. Severe Local Storms, San Antonio.
- LaDue, J. L., 1998: The influence of two cold fronts on storm morphology. *Preprints*, 19th Conf. On Severe Storms, Minneapolis, MN, Amer. Meteor. Soc., 324-327.
- Maddox, R.A., 1980: Mesoscale convective complexes. *Bull. Amer. Meteor. Soc.*, 61, 1374-1387.
- McCaul, E. W., and M. L. Weisman, 2000: The sensitivity of simulated storm structure and intensity to variations in the shapes of environment buoyancy and shear profiles. *Mon. Wea. Rev.*, 129, 664-687.
- Moncrieff, M. W., and C. Liu, 1999: Convection Initiation by Density Currents: Role of Convergence, Shear, and Dynamical Organization. *Monthly Weather Review*, 127, No. 10, pp. 2455–2464.

NWS Professional Development Series (PDS), *Forecasting and Warning Severe Convection*, available at <http://www.nwstc.noaa.gov/nwstrn/d.ntp/meteor/svrpds.html>

Newton, C. W., 1967: Dynamics of severe convective storms, *Met. Monographs*, 5, 33-58.

Richardson, Y.P., 1999: The Influence of horizontal variations in vertical shear and low-level moisture on numerically simulated convective storms. Ph.D. Dissertation, School of Meteorology, University of Oklahoma - Norman, 236 pp.

Rotunno, R., J. B., Klemp, and M. L. Weisman, 1988: A Theory for Strong, Long-Lived Squall Lines. *Journal of the Atmospheric Sciences*: Vol. 45, No. 3, pp. 463–485.

Rutledge, S. A., and R.A. Houze, 1987: A Diagnostic Modelling Study of the Trailing Stratiform Region of a Midlatitude Squall Line. *Journal of the Atmospheric Sciences*: Vol. 44, No. 18, pp. 2640–2656.

Schultz, D. M., 2001: Winter Weather Forecasting Topics at the WDTB Winter Weather Workshop, presentation available at http://wdtb.noaa.gov/workshop/WinterWxIV/presentations/SCHULTZ_.PPT

Trapp, J., R. D., M. Schultz, A. V. Ryzhkov, and R. L. Holle, 2000: Multiscale Structure and Evolution of an Oklahoma Precipitation Event, *Mon. Wea. Rev.*, 129, 3, 486-501.

Using AWIPS to Detect Surface Boundaries, A VISIT training session produced by WDTB, 2000. Available at <http://www.nssl.noaa.gov/istpds/icu92/ic921.html>

Weaver, J. F., 1979: Storm Motion as related to boundary-layer convergence. *Mon. Wea. Rev.*, 107, 612-619.

Weisman, M. L., M.S. Gilmore, and L. J. Wicker, 1998: The Impact of Convective Storms on their Local Environment: What is an Appropriate Ambient Sounding? Preprints, 19th Conf. on Severe Local Storms, MPLS, 238-245.

_____, 1993: The genesis of severe, long-lived bow echoes. *J. Atmos. Sci.*, 50, 645–670.

Wilson, J. W., and D. L. Megenhardt, 1997: Thunderstorm initiation, organization, and lifetime associated with Florida boundary layer convergence lines. *Mon. Wea. Rev.*, 125, 1507-1525.

Wolf, R. 2002: Doppler radar observations of squall line tornadogenesis near the KDVN WSR-88D. Preprints. 21st Conf. on Severe Local Storms, San Antonio, 507-510.

Ziegler, C. L., and E. N. Rasmussen, 1998: The Initiation of Moist Convection at the Dryline: Forecasting Issues from a Case Study Perspective. *Weather and Forecasting*: Vol. 13, No. 4, 1106–1131.